

# Practice A

For use with pages 179–184

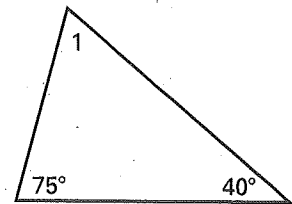
1. Which equation can be used to find  $m\angle 1$  in the diagram?

A.  $75^\circ + 40^\circ = m\angle 1$

B.  $m\angle 1 + 40^\circ + 75^\circ = 180^\circ$

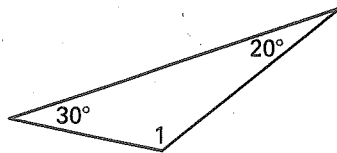
C.  $75^\circ + m\angle 1 = 40^\circ$

D.  $m\angle 1 + 40^\circ = 75^\circ$

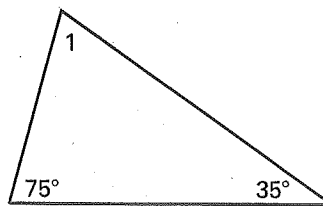


Find the measure of  $\angle 1$ .

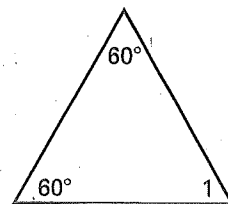
2.



3.

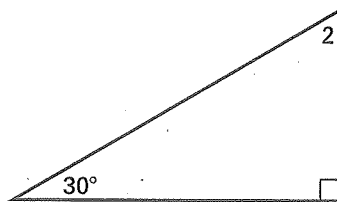


4.

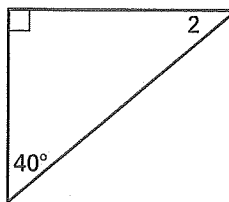


Find the measure of  $\angle 2$ .

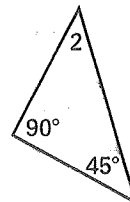
5.



6.

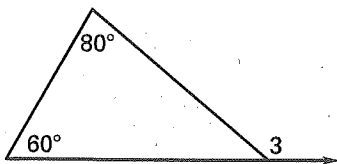


7.

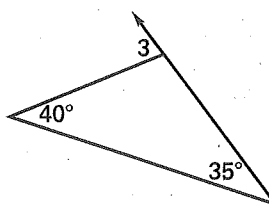


Find the measure of  $\angle 3$ .

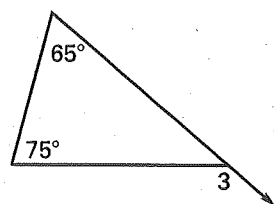
8.



9.

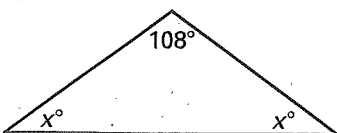


10.

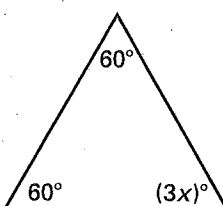


Find the value of  $x$ .

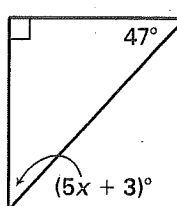
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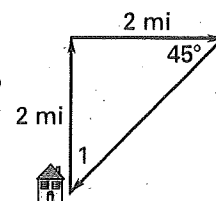
12.



13.



14. From your house, you walk north for two miles. Then you walk east for two miles. Next, you turn  $45^\circ$  to your right and walk back to your house. What is the measure of  $\angle 1$ , as shown in the diagram at the right?



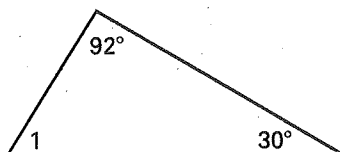


# Practice B

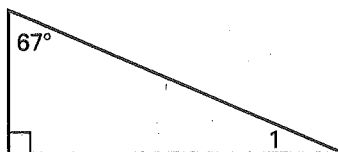
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Find the measure of  $\angle 1$ .

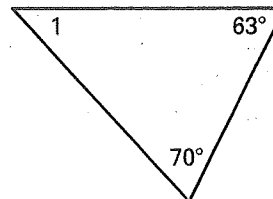
1.



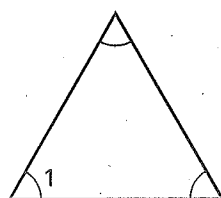
2.



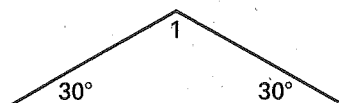
3.



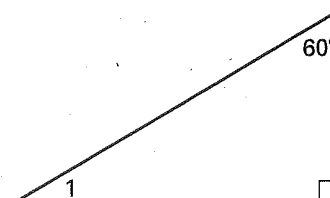
4.



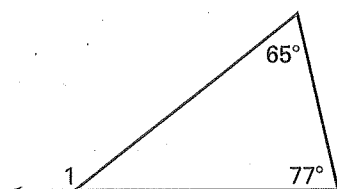
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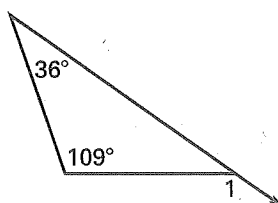
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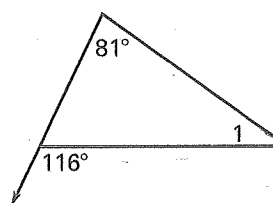
7.



8.

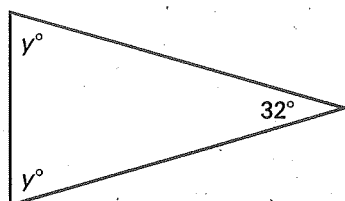


9.

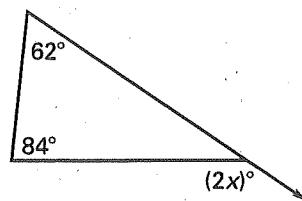


Find the value of the variable.

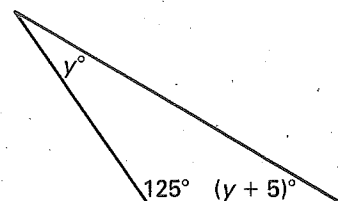
10.



11.



12.



13. The front of the tent pictured at the right is shaped like an isosceles triangle. The angles that the sides of the tent make with the ground are congruent. If  $m\angle 1 = 40^\circ$ , find  $m\angle 2$  and  $m\angle 3$ .

